

## Heroin Refining Along the Thai-Burmese Border, January-September 1983

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**Imagery Analysis Report** 

NGA Review Completed.

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Heroin Refining Along the Thai-Burmese Border, January-September 1983	
Summary	
Most heroin refineries in the Golden Triangle are located in Burma along the Thai-Burmese border and are operated or protected by paramilitary insurgent groups.	ed
we believe that at least 21 refineries were operating along the Thai-Burmese border at various times from 1 January to 30 September 1983. We estimate that these refineries produced a total of about 8 metric tons of No. 4 heroin during this period.	
Information available as of 30 September 1983 has been used in this report.	

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Also during this period, Thai and Burmese narcotics suppression forces destroyed or forced the abandonment of 18 of these refineries, but we believe that seven of them were subsequently reopened. We estimate that these suppression operations resulted in a production loss of about 4 metric tons of No. 4 heroin. The production estimates—because of insufficient substantive information—should be considered as indications of the magnitude of heroin production rather than as precise figures.

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## Introduction

The Golden Triangle of Southeast Asia is a loosely defined region consisting of the opium growing areas of northern Burma, Thailand, and Laos (figure 1). CIA studies reported that during the late 1960s and early 1970s, this region was the source of about 70 percent of the world's illicit opium--about 1,000 tons per year--and the major source of heroin used by American troops in Southeast Asia and by addicts within the United States. By the mid-1970s, however, Mexican heroin had taken over the US market, and by the end of the decade, Southwest Asia had supplanted Mexico as the primary source of heroin for US addicts. In 1979 and 1980 opium production in the Golden Triangle plummeted to between 160 and 225 tons, primarily because of a drought. However, annual production in the region increased sharply to about 600 tons during 1981 and 700 tons in 1982. During 1983, opium production decreased to about 620 tons. [References 1,2]

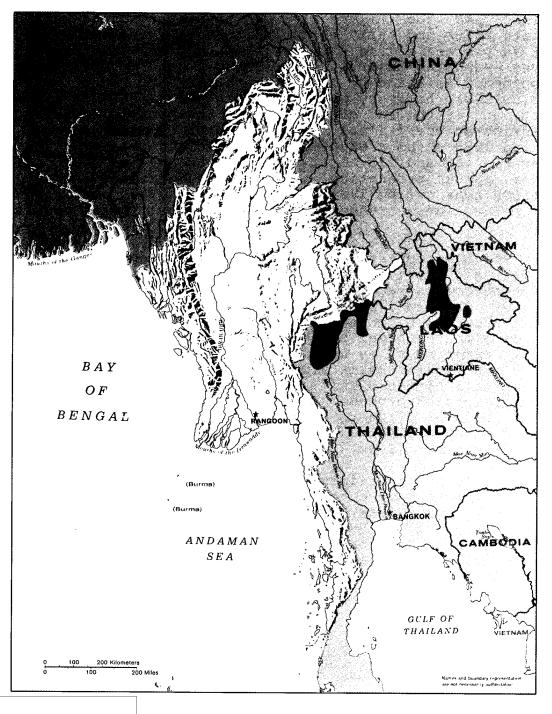
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Burma, which accounted for an estimated 560 tons of opium production in 1983, has long been the primary source of opium-based illicit narcotics reaching international markets from the Golden Triangle. Caravans, sometimes consisting of hundreds of pack animals escorted by more than 100 armed guards, transport opium or crude morphine base, called pitzu, to processing facilities. Commonly referred to as heroin refineries, these facilities are located just inside Burma along the Thai-Burmese border. Smaller caravans from northern Thailand deliver chemicals used in the heroin conversion process along with some opium. The refineries convert opium or pitzu to intermediate products such as pure morphine base, called 999 morphine, and crude heroin base, or to finished heroin.

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By 1971 at least 15 refineries were operating along the border.
[3] Traffickers have continued to locate refineries there,
primarily to ensure easy access to required chemicals from
Thailand and to major heroin trafficking outlets in southern
Thailand such as Bangkok. Both the refineries and the trail
networks leading to them are controlled by paramilitary insurgent
groups and trafficking organizations.

Figure 1
Opium Growing Areas in the Golden Triangle



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This report discusses heroin processing-related activity along the Thai-Burmese border that can be identified  It also provides an overview of changes in heroin-related activity along the border that have resulted from Thai and Burmese suppression operations between January and September 1983. In addition, it presents an estimate of refinery production as well as production losses resulting from Thai and Burmes narcotics suppression operations during that period. 2	
Heroin Conversion in the Golden Triangle	25X1
The conversion of crude opium to heroin in Golden Triangle refieries is a multistep process that begins with the extraction of crude morphine base, pitzu, from opium Although the process does yield salable intermediate narcotics such as 999 morphine and No. 3 heroin (smoking heroin), currently the prima products sold to traffickers are crude heroin base and higher purity, more expensive No. 4 heroin. Despite the apparent complexity of the conversion process and the variety of chemicals involved, refinery buildings are usually simple bamboo, thatch, or canvas-roofed structures with open sides to allow ample vent lation (figure 3). Crude opium or morphine is normally process in large pans or pots that are heated on a raised, linear heart that is fueled by charcoal or wood. The refineries are located adjacent to streams that provide the continuous supply of water required in the conversion process.	e 25X1 ry i- ed
These production estimates and estimates of lost production ar for refineries located only along the Thai-Burmese border and do not take into account refineries that may be located in other areas of the Golden Triangle or along the Thai-Malaysia border.	25X e o



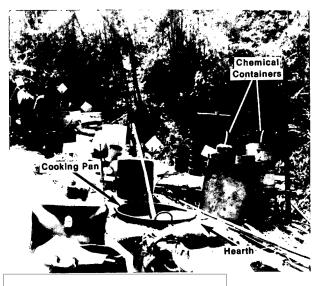
Figure 3

Heroin Refineries and Processing Equipment

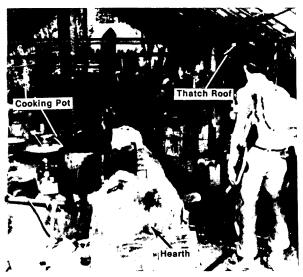
Abandoned Refinery in Northern Thailand, November 1977



Dismantled Refinery in Burma, April 1978



Captured Refinery in Northern Thailand, August 1981



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Photographic Indicators of Refining Operations

During the late 1960s and early 1970s, paramilitary insurgent and trafficking groups in the Golden Triangle usually built large refinery complexes in isolated areas and made no attempt to hide them from aerial reconnaissance. Consequently, identification of these facilities on imagery was relatively easy.

One of the first such refinery complexes observed on imagery was located about 3 kilometers (km) north of Tachilek, Burma

As Thai and Burmese narcotics suppression efforts increased during the mid-1970s, individual refineries were removed from complexes such as Tachilek and dispersed to isolated locations along the Thai-Burmese border. To further enhance security, traffickers began a concerted effort to conceal refineries from aerial reconnaissance by locating them under heavy tree canopy.

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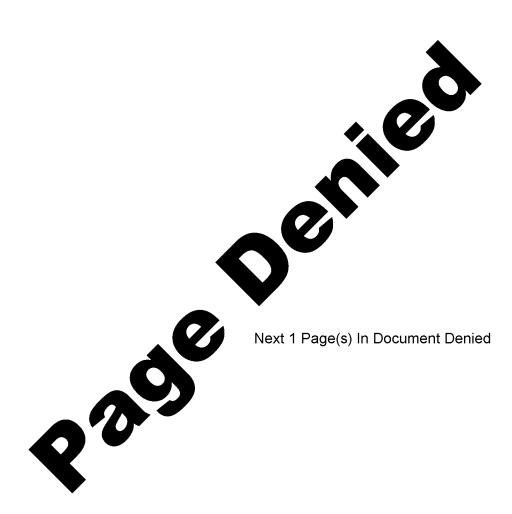
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Refineries Along the Thai-Burmese Border, January-September 1983

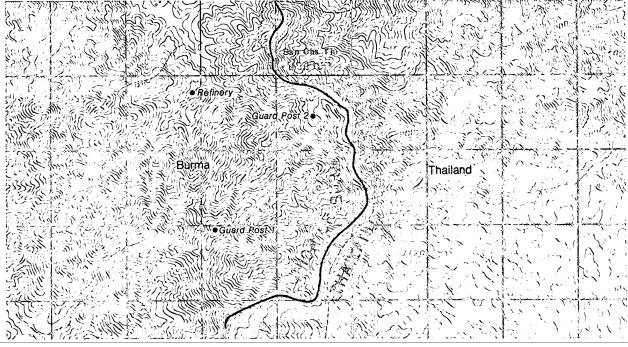
Although nine paramilitary groups are currently involved in refining and trafficking activity along the Thai-Burmese border, most refineries in the area are operated by or are under the protection of the Shan United Army (SUA) or the Shan United Revolutionary Army (SURA) in concert with the 3rd Chinese Irregular Force (CIF) (see table). [4] Paramilitary insurgent and trafficking groups also allow independent refineries to operate in the border area but share in the profits from refineries located within areas they control.

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<sup>\*</sup>The Burmese Communist Party (BCP) -- a Chinese-supported revolutionary group headquartered in the northern Shan State--is also a major narcotics refining and trafficking organization, but it does not operate refineries along the Thai-Burmese border.







## Heroin Trafficking Organizations in the Thai-Burmese Border Area

Organization [3]	Approximate Number of Armed Members
Shan United Army	3,000-4,000 a
Shan United Revolutionary Army	800-1,000
Kuomintang	
3rd Chinese Irregular Force	1,500-2,000 <sup>b</sup>
5th Chinese Irregular Force	300-500°
Shan State Army	1,500
Karenni National Progressive Party	500-1,200
Lahu State Army	200-500
Kachin Independence Army	4,500 to 5,000
Wa National Army	400
A Bi Group	500

the

SUA had 2,190 troops as of May 1983. [5]

bThe 3rd CIF is partially integrated with the SURA.

°The 5th CIF provides most of the officers for the SUA.

we believe that at least 21 heroin refineries were operating along the Thai-Burmese border at various times from January
through September 1983. [4-18] All were in Burma at locations
ranging from 1 to 27 km from the Thai border (figure 10). The
SURA and the 3rd CIF operated 10 of the refineries, the SUA six,
the Shan State Army (SSA) one, the Karenni National Progressive
Party (KNPP) one, and three were independently operated under the
protection of the SUA or the A Bi group. During this period,
Thai (Tahan Phran) and Burmese (Burmese Army) narcotics suppres-
sion forces destroyed or forced the abandonment of 18 of these
refineries, but seven of these were
subsequently reopened. Although seasonal cloud cover and con-
cealment practices have precluded us from identifying any of
these refineries, we have observed associated defensive
positions, trail activity, or paramilitary camps near two
refineries and a refinery complex consisting of five refineries
that were reportedly operating on 30 September 1983 (figure 11).
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The Tahan Phran are company-sized infantry elements of the Royal Thai Army. They are trained as rangers to operate primarily against small, mobile units of Communist insurgents, but they are also used against narcotics traffickers. The Burmese rely on regular army units for narcotics suppression.

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Figure 10 Heroin Refineries Along the Thai-Burmese Border, January-September 1983 5936 Nam Mae Ha Refinery Moved to Mong-Kan (No.3) Burma 3701 .sesThailand 7350 6578 , 5033 6266 c5092 5505 Operating • Destroyed/abandoned

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Key to Figure 10

ry itor)	Distance From the Border (km)	Date of Initial Operation	Date Destroyed	Date Abandoned	Date Rebuilt or Operations Begun Again
Anaka Kho a No. I (SUA)	4	Prior to	3 Jun 83		23 Jun 83
2 Anaka Kho No. 2 (SUA)	4	Prior to 1 Jan 83	5 Jun 83		
3 Mong Kan a (SUA) (Nam Mae					10 Apr 83
Ha opened here)  4 Hua Mae Kham (Independent/ SUA)	3	1 Apr 83		9 Jun 83	
5 Nam Mac Ha (SUA)	12	Prior to 1 Jan 83		9 Apr 83	
6 Lao Ta a (Independent/ A Bi)	3	5 Apr 83			
7 Doi San Chu (SUA)	5	5 Feb 83	21 Aug 83		
8 Lao Su (Independent/ A Bi)	3	Prior to 1 Jan 83	28 Jan 83		
9 San Klang <sup>a</sup> No. I	15	Prior to 1 Jan 83	15 Apr 83		5 May 83
(SURA/3rd CIF) San Klang <sup>a</sup> No. 2	18	Prior to	15 Apr 83		5 May 83
(SURA/3rd CIF)	10		15 4 62		6 Mars 82
San Klang a No. 3 (SURA/3rd CIF)	18	Prior to 1 Jan 83	15 Apr 83		5 May 83

<sup>a</sup> Operable on 30 September 1983.

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	Heroin	Productio	n Estima	te				
L	during	the first	nine mor	ths of	1983,	the 21	known	estimate th refineries
	produce	d about 8	metric t	ons of	No. 4	heroin.	8	

Heroin Production Losses						
	ng the first nine months of					
1983, the 21 refineries along the bo						
producing heroin for 1,863 days because of Thai and Burmese						
narcotics suppression operations. Multipying this figure by our						
estimate of the average daily production of these refineries, we						
estimate that these suppression operations resulted in a produc-						
tion loss of about 4 metric tons of 1	No. 4 heroin.					

The 90-percent confidence interval for lost production of No. 4 heroin is 2.7 to 5.5 metric tons.

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